

Title (en)  
Rotary compressor, heat pump, and household appliance

Title (de)  
Rotationsverdichter, Wärmepumpe und Haushaltsgerät

Title (fr)  
Compresseur rotatif, pompe à chaleur et appareil ménager

Publication  
**EP 2985466 A1 20160217 (EN)**

Application  
**EP 14382314 A 20140814**

Priority  
EP 14382314 A 20140814

Abstract (en)  
A rotary compressor 1 comprises a cylindrical housing 8, a cylindrical roller 10 accommodated in the housing 8, a motor shaft 13 leading through the roller 10 having a cam 14 for rolling the roller 10 along a side wall 15 of the housing 8, and a discharge port 18 leading through a bottom cover 12, wherein a height-to-radius ratio  $h/r$  of the roller 10 is between 1.6 and 1.2, a radius  $r_s$  of the motor shaft 13 is 8.0 mm or less, a cam height  $h_c$  of 14 mm or less, an area  $Q$  of the discharge port 18 of 17 mm<sup>2</sup> or more, and a thickness  $d$  of the discharge port 18 of 2.5 mm or less. For operation of the compressor 1, a top cover 19 may be put onto the top open side of the housing 8. The top cover 19 may have a bushing for the shaft 13. A heat pump  $P$  comprises the compressor 1. A household appliance  $H$ , in particular laundry care apparatus  $H$ , comprises the heat pump  $P$ .

IPC 8 full level  
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CPC (source: CN EP US)  
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Citation (applicant)  
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**EP 14382314 A 20140814**; CN 201580036942 A 20150814; EP 15759656 A 20150814; EP 2015068732 W 20150814; JP 2017527977 A 20150814; US 201515503121 A 20150814